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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,448	01/04/2001	Susan I. Shelso	06530.0275	3427
22852 7	590 08/09/2006		EXAM	INER
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			PRONE, CHRISTOPHER D	
LLP 901 NEW YOR	RK AVENUE, NW		ART UNIT	PAPER NUMBER
	N, DC 20001-4413		3738	

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/753,448	SHELSO, SUSAN I.	
Office Action Summary	Examiner	Art Unit	
	Christopher D. Prone	3738	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 12 J	lulv 2006.		
,— ,	s action is non-final.	•	
3) Since this application is in condition for allowa	ance except for formal matters, pr	osecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 1-13,15-21,23-34,36-41,43 and 44 is 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-13,15-21,23-34,36-41,43 and 44 is 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er		
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is of	bjected to. See 37 CFR 1.121(d)	).
11) The oath or declaration is objected to by the E	xaminer. Note the attached Oπic	e Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> <li>3. Copies of the certified copies of the priority documents.</li> <li>* See the attached detailed Office action for a list.</li> </ul>	ts have been received. ts have been received in Applica prity documents have been receiv nu (PCT Rule 17.2(a)).	tion No ved in this National Stage	
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)	4) Interview Summar		
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)	

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#### **DETAILED ACTION**

### Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7-13, 15, 16, 29, 30, 32-34 and 44 rejected under 35 U.S.C. 103(a) as being unpatentable over Ravenscroft (USPN 5,702,418) in view of Dwyer et al (USPN 5,90**3**,234).

With reference to Figure 1, Ravenscroft discloses a delivery system (10) comprising a catheter (11) having self-expanding stent (20) disposed on distal end near a loading funnel (13). Figure 1 shows that loading funnel (13) is used to compress stent (20) on the distal end of catheter (11) within a slidable outer member (24) during delivery into the patient's body. The catheter (11) further comprises a guidewire (31) and a tubular member (17) comprising at least three radiopaque marker bands (37) shown in Figure 5 as 4 dark rings that indicate the leading, middle, and trailing ends of stent (20). Ravenscroft further discloses that the distal tip (13) may be made of

radiopaque material or comprise a radiopaque marker band, which corresponds to the distal most tip of the stent (20). The catheter also has an outer member (24) that is slidable relative to the tubular member (5:15-22) is configured to retain the stent 20 in a radially compressed position. In one embodiment Ravenscroft discloses an inflatable balloon device (60) disposed on the catheter beneath the stent (7:10-13). The marker bands can be used to indicate a position corresponding to the re-constrain limit of a partially deployed stent (7:53-59). The catheter further comprises fluid ports (30) shown in figure 4, which are capable of conveying fluids to the inflatable device (60) between the tubular member (17) and outer member (24). Ravenscroft also discloses the method for implanting a self-expanding stent comprising the following steps; providing the stent/deployment system combination, delivering the system to the target region, partially deploying the stent, re-constraining the stent, and inflating the balloon device to assist the expansion of the stent (6:21-58 and 7:1-41). Ravenscroft discloses the delivery system for a self-expanding stent as claimed.

Ravenscroft however fails to disclose a holding sleeve configured to retain the positioning of the stent, wherein the inflatable device is disposed solely between the holding sleeve and the distal end of the catheter.

Dwyer teaches stent catheter delivery device comprising a holding/locking sleeve member (104), which engages the stent to prevent it from moving proximally when the sheath is retracted distally.

Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the delivery system

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as disclosed by Ravenscroft by including a holding sleeve member as taught by Dwyer in order to ensure proper positioning is maintained after the first end of the stent has been released.

Claims 5, 6, 17-21, 23-28, 31, 36-41, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ravenscroft as modified by Dwyer and further in view of Lenker et al (USPN 5,749,921).

The combination of Ravenscroft and Dwyer, as discussed above, discloses the stent delivery device as claimed. The combination however fails to teach the loading the stent onto the delivery system through the delivery funnel.

Lenker teaches a the device and method of loading a stent 72 into a delivery catheter prior to deployment by attaching removable cartridge 102 comprising flared portion 100 thereby allowing the stent to be loaded in the operating room prior to deployment to avoid shipping and storing the prosthesis in a compressed configuration (7:1-25). After the stent 72 is loaded within sheath 106 it is detached from the delivery system and disposed at the end of a delivery catheter.

Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the delivery device of Ravenscroft modified by Dwyer in order to incorporate the method of loading the stent as taught by Lenker in order avoid storing the stent in a compressed configuration thereby promoting resilient expansion of the stent to its full diameter when it is released.

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## Response to Arguments

Applicant's arguments with respect to all the claims have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Prone whose telephone number is (571) 272-6085. The examiner can normally be reached on Monday Through Fri 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher D Prone Examiner Art Unit 3738

CDP

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